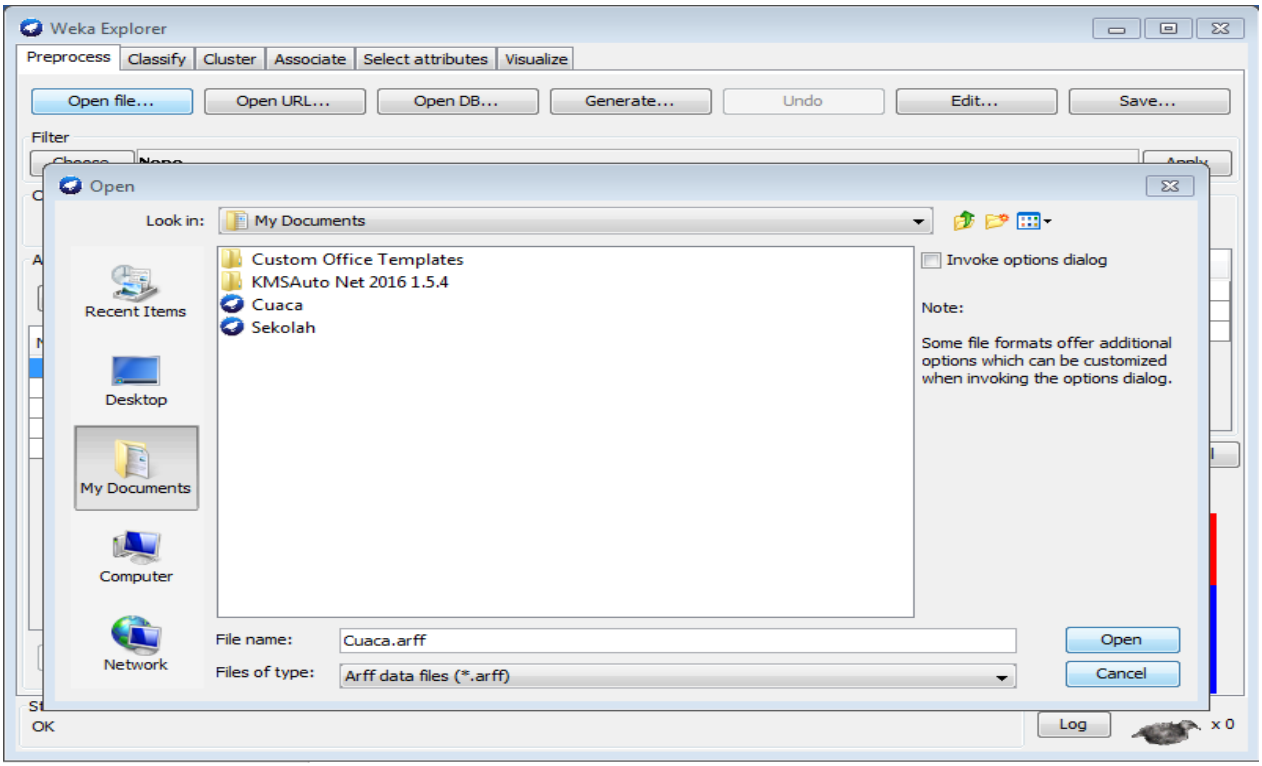
Nama : Rizky Tri Setya W
NIM : L200170054
Kelas : C

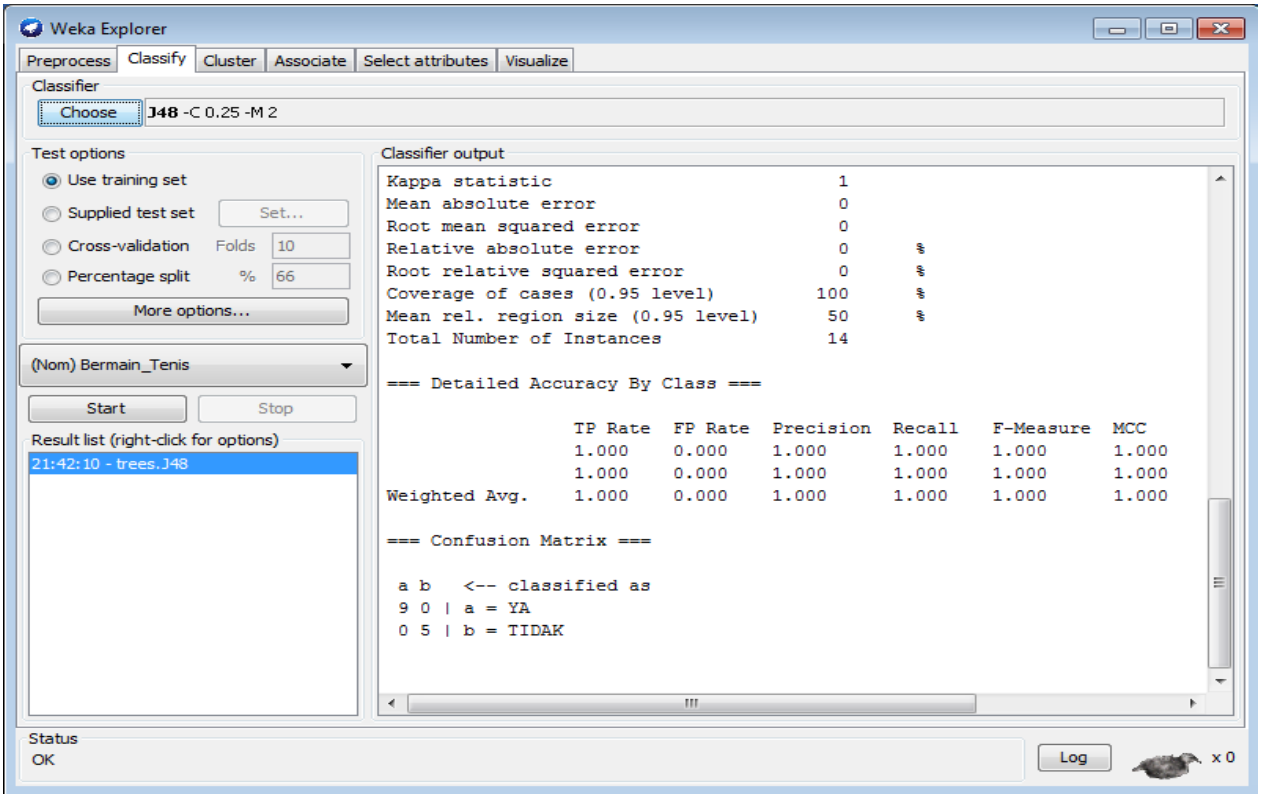
**Modul-09**
**KLASIFIKASI : DECISION TREE**
**PRAKTIKUM DATA WAREHOUSING DAN DATA MINING**

**LANGKAH-LANGKAH PRAKTIKUM:**

- **OPEN FILE Cuaca.arff**




- **BUKA TAB CALSSIFY PILIH TREES-J48**


Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
J48 -C 0.25 -M 2
Test options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
(Nom) Bermain_Tenis
Start
Stop
Result list (right-click for options)
21:42:10 - trees.J48
Classifier output
Kappa statistic 1
Mean absolute error 0
Root mean squared error 0
Relative absolute error 0 %
Root relative squared error 0 %
Coverage of cases (0.95 level) 100 %
Mean rel. region size (0.95 level) 50 %
Total Number of Instances 14
=== Detailed Accuracy By Class ===
TP Rate FP Rate Precision Recall F-Measure MCC
1.000 0.000 1.000 1.000 1.000 1.000
1.000 0.000 1.000 1.000 1.000 1.000
Weighted Avg. 1.000 0.000 1.000 1.000 1.000 1.000
=== Confusion Matrix ===
a b <-- classified as
9 0 | a = YA
0 5 | b = TIDAK
Status
OK
Log
x 0

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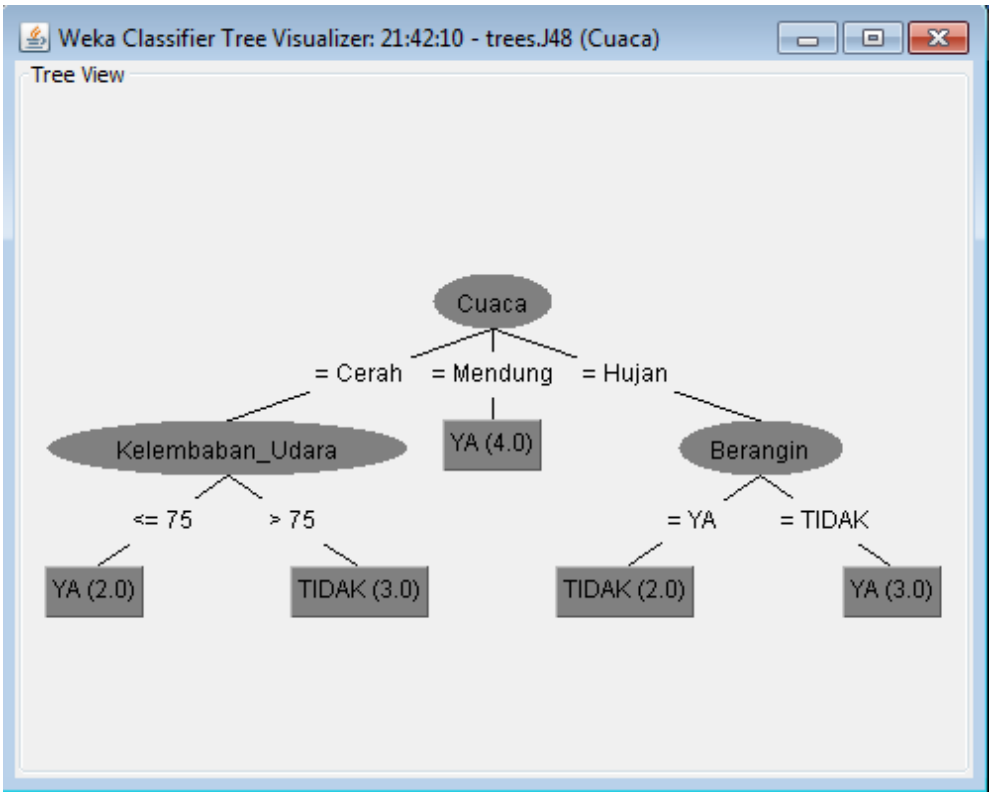
- **Classifier Output**

Classifier output

```
Cuaca = Cerah
|   Kelembaban_Udara <= 75: YA (2.0)
|   Kelembaban_Udara > 75: TIDAK (3.0)
Cuaca = Mendung: YA (4.0)
Cuaca = Hujan
|   Berangin = YA: TIDAK (2.0)
|   Berangin = TIDAK: YA (3.0)

Number of Leaves  :     5

Size of the tree :      8


Time taken to build model: 0.02 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correctly Classified Instances          14               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0
Root mean squared error                  0
Relative absolute error                  0      %
Root relative squared error              0      %
Coverage of cases (0.95 level)         100      %
Mean rel. region size (0.95 level)      50      %
```

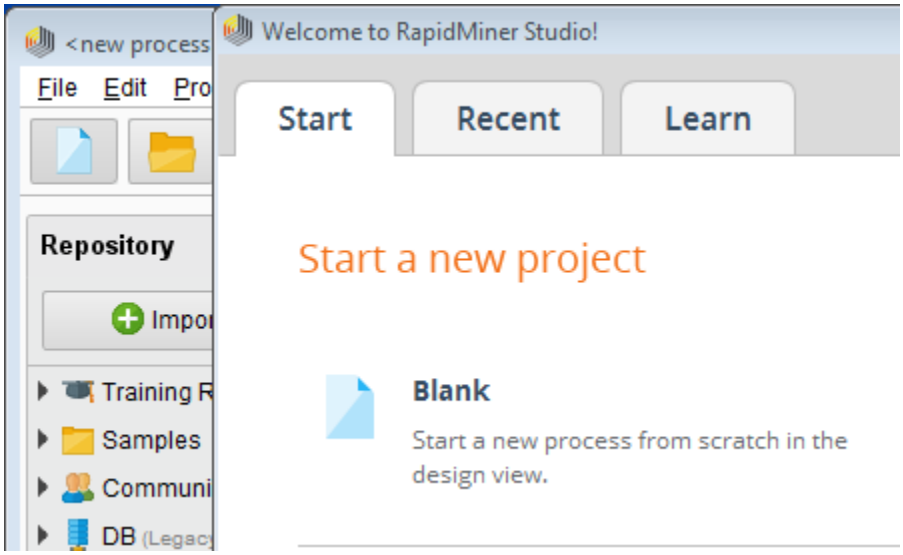
- **Visualize tree**



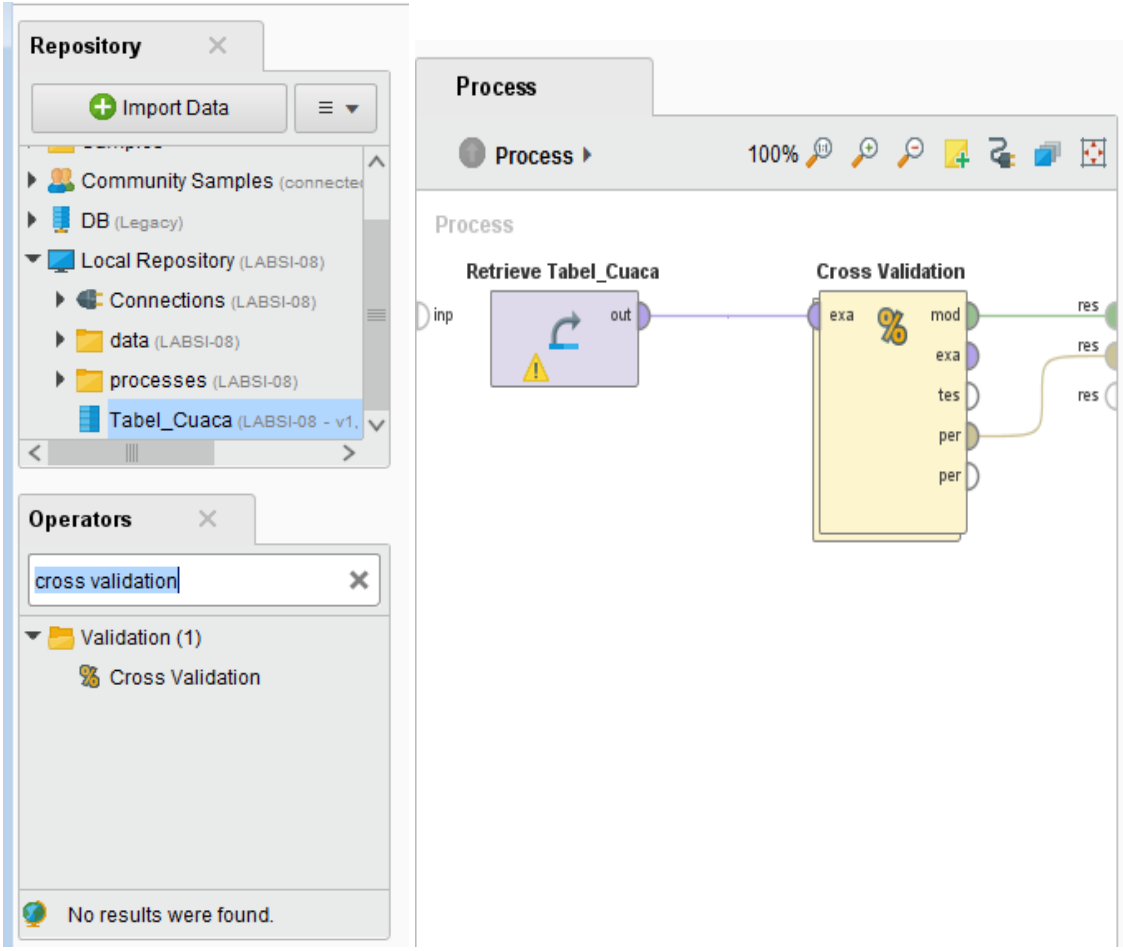
**Modul-09**
**KLASIFIKASI : DECISION TREE**
**PRAKTIKUM DATA WAREHOUSING DAN DATA MINING**

***POHON KEPUTUSAN MENGGUNAKAN RAPID MINER***

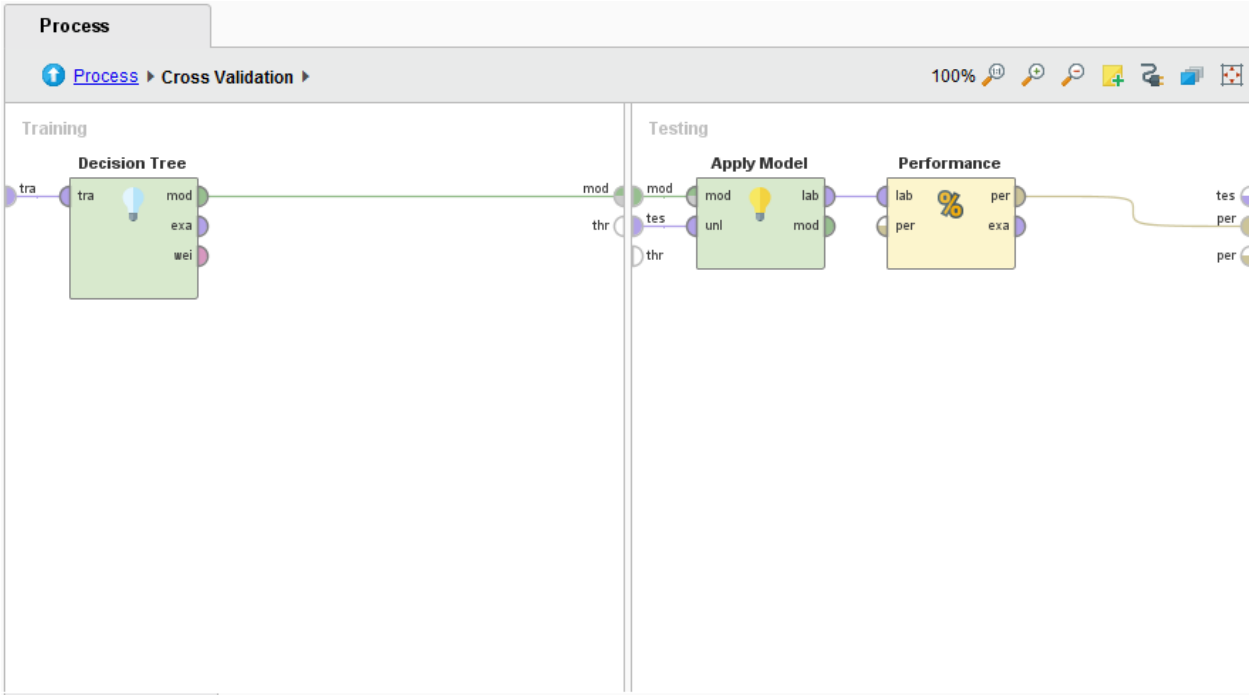
- **BUKA APLIKASIRAPIDMINER**
- **KLIK NEW PROCESS BLANK**

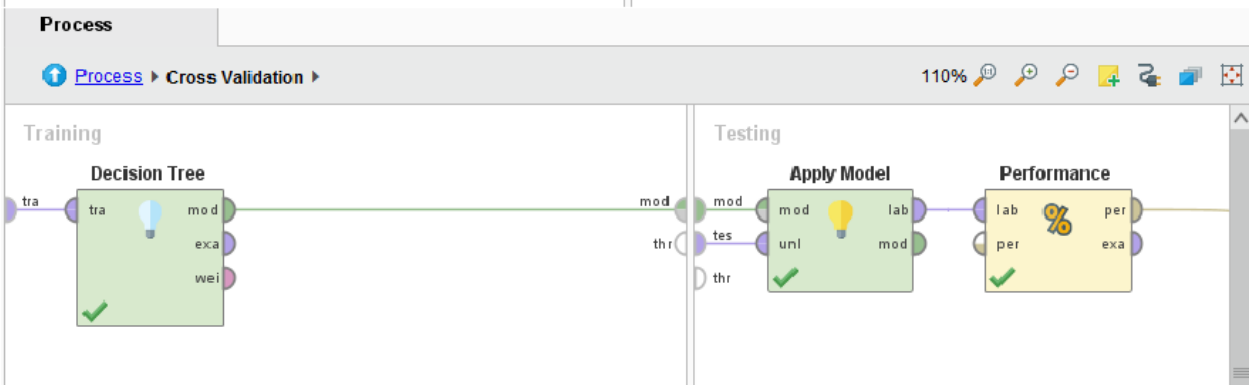



- **DRAG DataCuaca_Trainning ke areporess View dan pula operator cross validation**



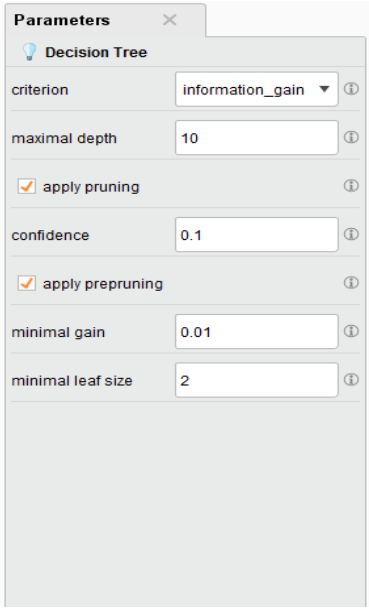
# Modul-09
# KLASIFIKASI : DECISION TREE
# PRAKTIKUM DATA WAREHOUSING DAN DATA MINING



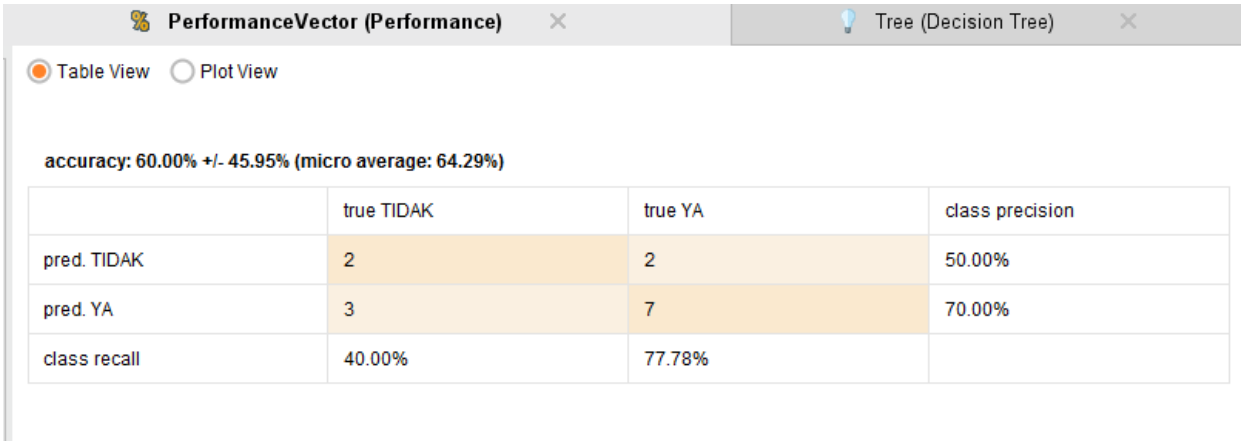



# Modul-09
# KLASIFIKASI : DECISION TREE
# PRAKTIKUM DATA WAREHOUSING DAN DATA MINING

- **Klik decision tree dan pastikan criterionnya information_gain**




- **Klik run atau F11 dan lihat result**




| | true TIDAK | true YA | class precision |
|---|---|---|---|
| pred. TIDAK | 2 | 2 | 50.00% |
| pred. YA | 3 | 7 | 70.00% |
| class recall | 40.00% | 77.78% | |

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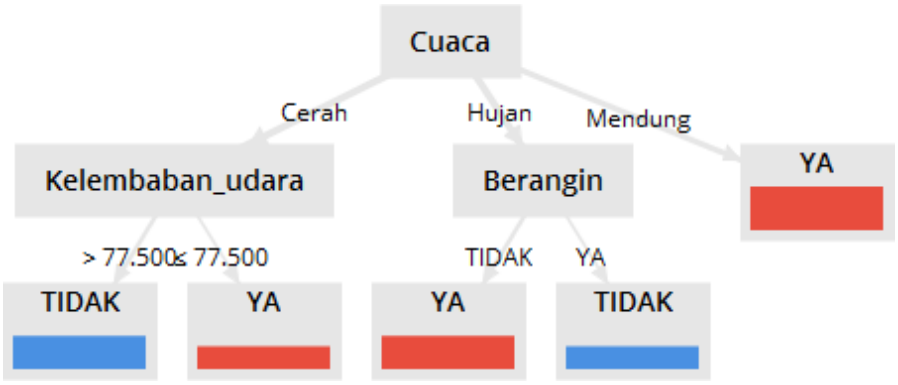
- **Decision tree**